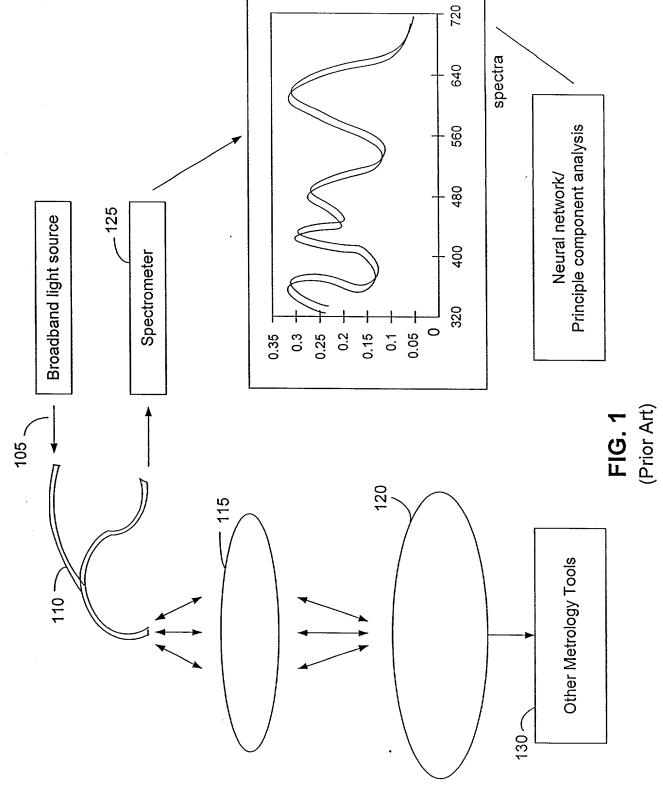
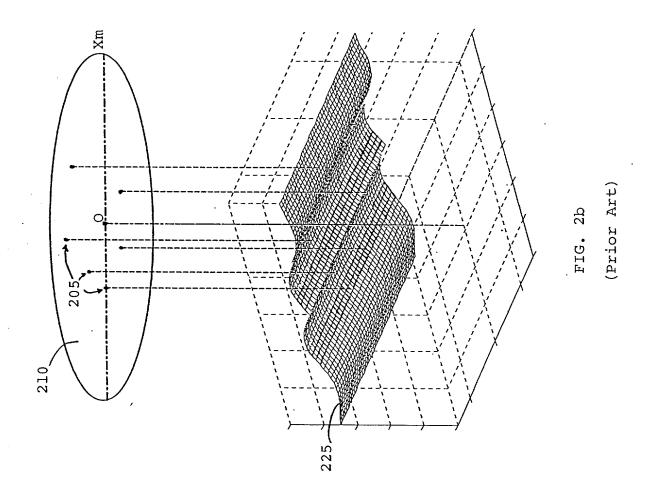
Sheet 1 of 13 Application No.: To Be Assigned Trile: SYSTEM AND METHOD FOR EFFICIENT

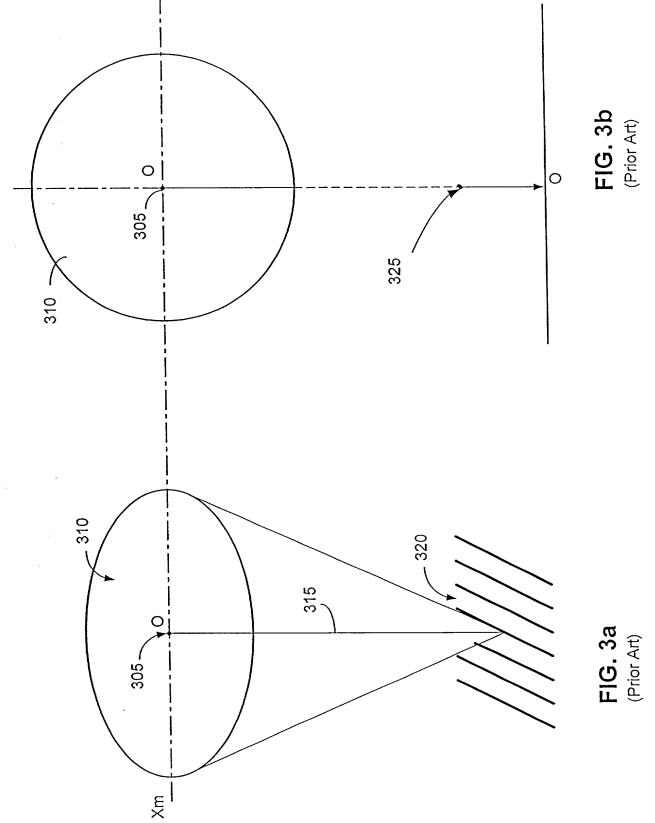


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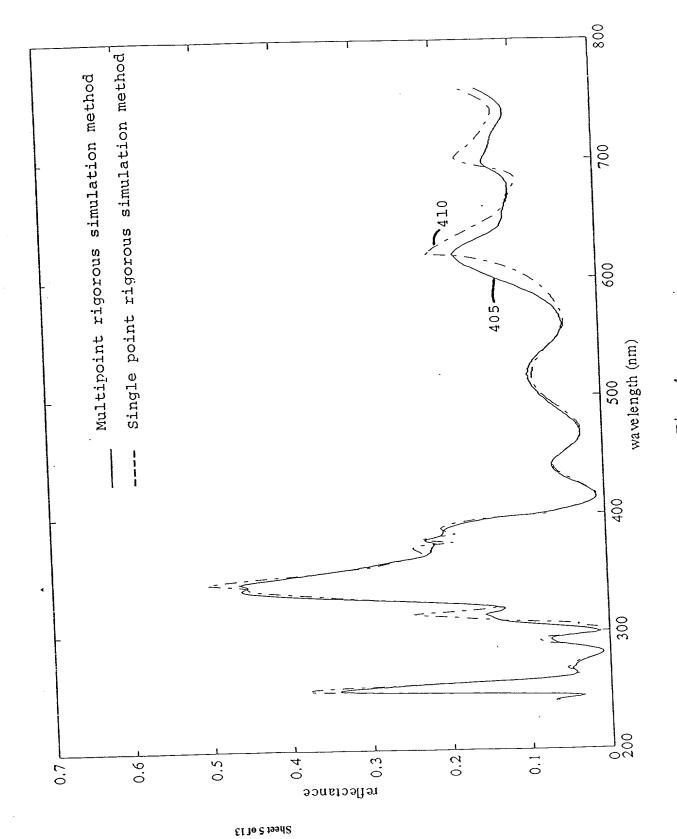
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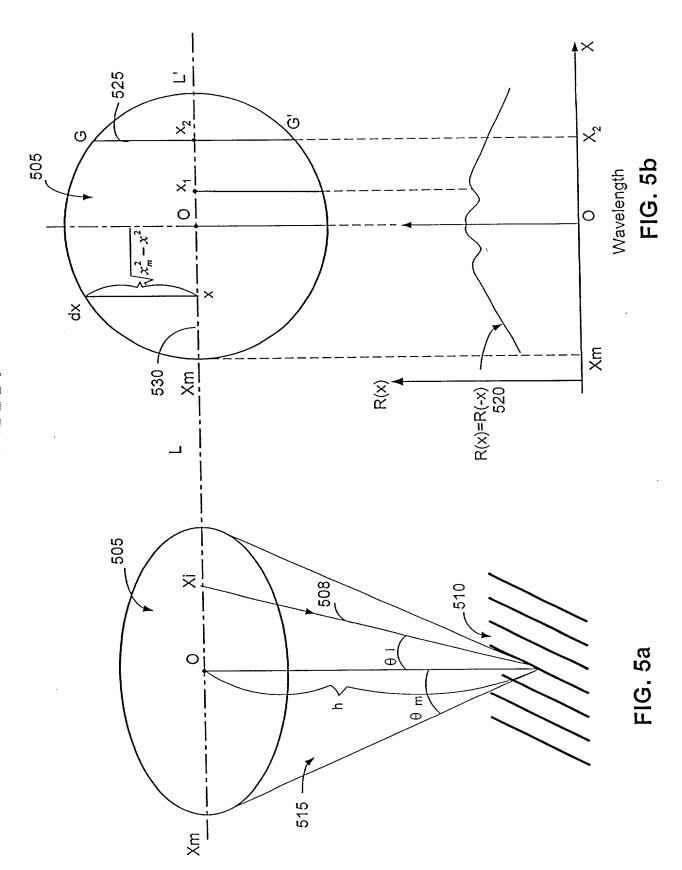




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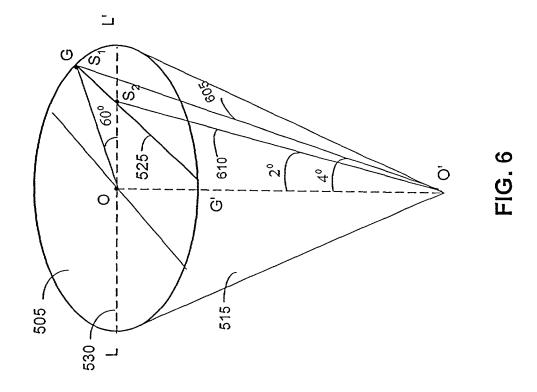


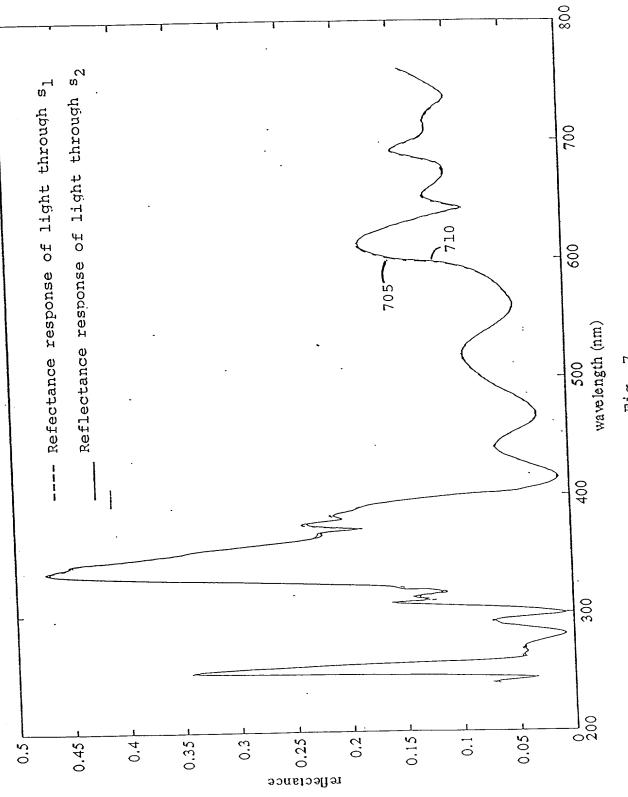
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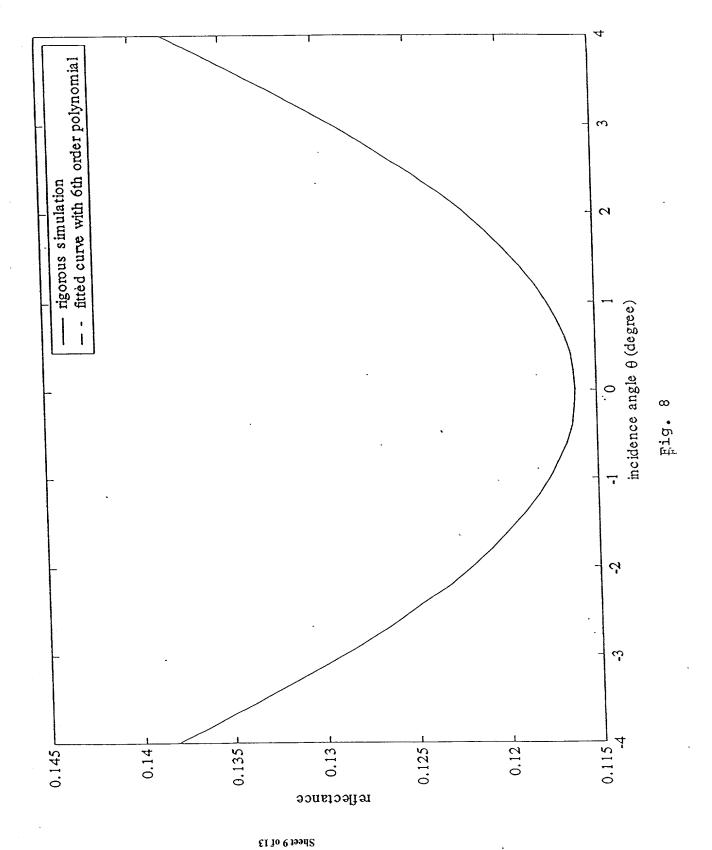
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Inventor: Junwei BAO

Title: SYSTEM AND METHOD FOR EFFICIENT SIMULATION OF REFLECTOMETRY et al.



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Application No.: To Be Assigned

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SIMULATION OF REFLECTOMETRY et al.
Inventor: Junwei BAO
Application No.: To Be Assigned

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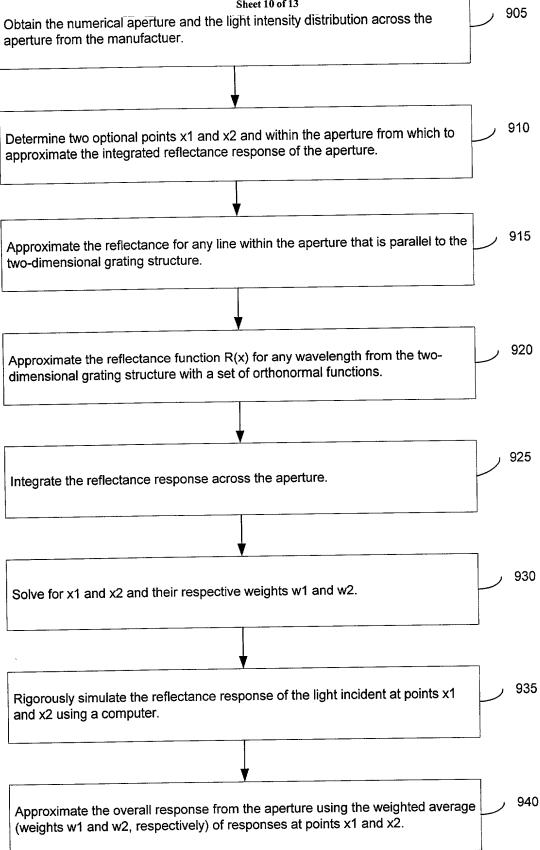
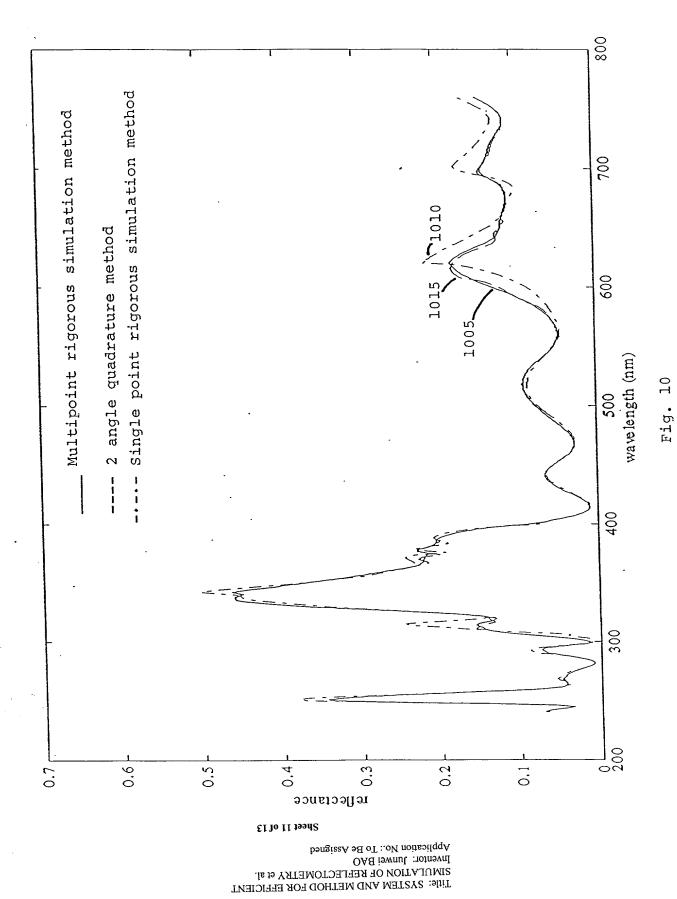
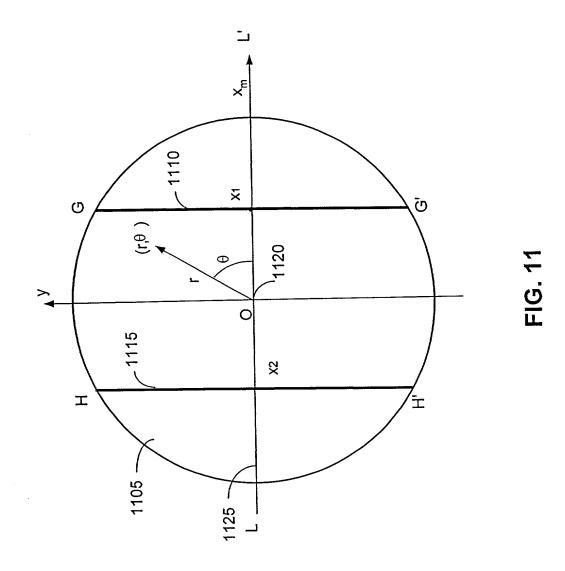


Fig. 9



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1205 Obtain the numerical aperture and the light intensity distribution across the aperture from the manufacturer. 1240 Determine two optimal points x1 and x2 and within the aperture from which to approximate the integrated reflectance response of the aperture. 1215 Approximate the reflectance response for any line within the aperture that is parallel to the two-dimensional grating structure. 1220 Approximate the reflectance function R(x) for any wavelength for the twodimensional grating structure with a set of orthonormal functions. 1225 Integrate the reflectance response across the aperture. 1230 Solve for x1 and x2 and their respective weights w1 and w2. 1235 Rigorously simulate the reflectance response of the light incident at points x1 and x2 using a computer. 1235 Approximate the overall response from the aperture using the weighted average (weights w1 and w2, respectively) of responses at points x1 and x2.

Fig. 12